

# CHECKLIST Bachelor of Engineering (Honours) – Civil Engineering (2342): Completion of pre-2021 program

## IMPORTANT Notes:

- The information contained in this document is intended as general advice only. Students must follow the program rules & requirements listed on the [Programs and Courses Website](#) relevant to the year they commence. This planner must be used in conjunction with your program duration course list and program rules.
- Students need to check future course offerings, prerequisites, incompatibilities and restrictions for all courses as these are subject to change.
- Students cannot take courses that are incompatible with courses already counted towards their program, and cannot count the same course twice.

You must complete for the BE(Hons) (Civil Engineering) - a Single Major or Extended Major, or Major & Minor; 64 units comprising –

- a. a major - 52 units, comprising-
  - (i) 46 units, being all courses from [part A](#) (listed below); and
  - (ii) 6 units from a combination of part [B1](#) and [B2](#) electives, (with a minimum of 4 units from [part B2](#)); and
- b. 12 units from electives
  - (i) a minimum of 4 units from courses on the BE(Hons) list, other than courses on the Civil Engineering [part B0 list](#), and
  - (ii) a maximum of 4 units from courses on the Civil Engineering [part B0 list](#), and
  - (iii) a maximum of 4 units from level one courses not on the BE(Hons) list

OR

- a. an extended major - 60 units, comprising-
  - (i) 46 units, being all courses from [part A](#) - compulsory; and
  - (ii) 14 units from a combination of [part B1](#) and [B2](#) electives, (with a minimum of 8 units from [part B2](#)); and
- b. 4 units from electives.

## PART A

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/x compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
46 units, being all courses from Part A - compulsory							
	<b>ENGG1100</b> Engineering Design (2) and <b>ENGG1200</b> Engineering Modelling & Problem Solving (2) (discontinued) OR <b>ENGG1211</b> Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	2/20 2/20	<b>ENGG1100</b> Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2	
	<b>MATH1051</b> Calculus & Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	2		<b>MATH1051</b> Calculus & Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	1,2	2	
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	2		<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2	
	<b>ENGG1400</b> Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	<b>ENGG1700</b> Statics & Materials	1,2	2	1/21
	<b>CIVL2135</b> Environmental Issues and Sustainability in Engineering	2		<b>CIVL2135</b> Environmental Engineering: An Introduction for Civil Engineers	1	2	
	<b>CIVL2330</b> Structural Mechanics	2		<b>CIVL2330</b> Structural Mechanics	1	2	

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	<b>CIVL2410 Sustainable Transport Engineering - Traffic Analysis (discontinued)</b>	2	1/21	<b>CIVL2420</b> Fundamental of Transport Engineering	2	2	2/22
	<b>CIVL2530</b> Probability and Statistics in Engineering	2		<b>CIVL2530</b> Statistics and Data Analysis	1	2	
	<b>CIVL2131</b> Environmental Fluid Mechanics	2		<b>CIVL2131</b> Environmental Fluid Mechanics (moves to semester 1 from 2022)	1	2	
	<b>CIVL2210</b> Soil Mechanics	2		<b>CIVL2210</b> Fundamentals of Soil Mechanics	2	2	
	<b>CIVL2340</b> Design of Steel Structures (discontinued)	2	2/22	<b>CIVL3380</b> Structural and Steel Design	1	2	1/23
	<b>CIVL2360</b> Design of Concrete Structures (discontinued)	2	2/22	<b>CIVL3360</b> Reinforced Concrete Design	1	2	2/22
	<b>CIVL3140</b> Hydraulics of Engineered and Natural Waterways (discontinued) and <b>CIVL3141</b> Hydrology and Hydrological Risk (discontinued)	2	1/21 and 2/21	<b>CIVL3155</b> Hydrology and free surface flows plus <b>[CIVL4121</b> Environmental Hydraulics and Flood Management (discontinued) [or <b>[CIVL4145</b> Groundwater Modelling and Management	2 1 2	2 2	2/22 1/23 2/22
	<b>CIVL3210</b> Geotechnical Engineering	2		<b>CIVL3210</b> Geotechnical Engineering	1	2	
	<b>CIVL3340</b> Structural Analysis	2		<b>CIVL3340</b> Structural Analysis	2	2	
	<b>CIVL3350</b> Integrated Structural Design	2		<b>CIVL3350</b> Integrated Structural Design	2	2	
	<b>CIVL3420</b> Sustainable Transport Engineering - Planning and Design (discontinued)	2	1/23	<b>CIVL3420</b> Sustainable Transport Engineering (discontinued)	2	2	
	<b>CIVL3510</b> Project Management with Building Information Modelling (discontinued)	2	2/22	<b>CIVL3520</b> Project Management and Professional Practice	2	2	2/23
	<b>CIVL4514</b> Integrated Design	2		<b>CIVL4514</b> Capstone Design: Infrastructure Design Project (discontinued)	1	2	
	<b>ENGG4900</b> Professional Practice and the Business Environment (discontinued)	2		<b>ENGG4901</b> Professional Practice and the Business Environment A or <b>ENGG4902</b> Professional Practice and the Business Environment B	1,2	2	
	<b>CIVL4516</b> Integrated Design for Environmental Management	2		<b>CIVL4516</b> Capstone Design: integrated Environmental Mgmt Project	2	2	

## PART B

✓/X compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CHEM1090</b> Introductory Chemistry	2		<b>CHEM1090</b> Introductory Chemistry	1	2	
	<b>MATH1050</b> Mathematical Foundations	2		<b>MATH1050</b> Mathematical Foundations	1,2	2	
	<b>PHYS1171</b> Physical Basis of Biological Systems	2		<b>PHYS1171</b> Physical Basis of Biological Systems	1,2	2	

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√/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CHEM1100</b> Chemistry 1	2		<b>CHEM1100</b> Chemistry 1	1,2	2	
	<b>CSSE1001</b> Introduction to Software Engineering	2		<b>CSSE1001</b> Introduction to Software Engineering	1,2	2	
	<b>ENGG1300</b> Introduction to Electrical Systems	2		<b>ENGG1300</b> Introduction to Electrical Systems	1,2	2	
	<b>ENGG1500</b> Engineering Thermodynamics	2		<b>ENGG1500</b> Engineering Thermodynamics	1,2	2	
	<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2		<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2	2	
	<b>ENGG2000</b> Humanitarian Engineering	2		<b>ENGG2000</b> Humanitarian Engineering	2	2	
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	2		<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	1	2	
	<b>MATH2000</b> Calculus & Linear Algebra II (discontinued)	2	2/20	<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2	
	<b>MATH2001</b> Advanced Calculus & Linear Algebra II	2		<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2	
	<b>MINE2105</b> Introduction to Mining and Mineral Processing (discontinued)	2	1/21	<b>Any B1 Elective</b>		2	
	<b>MINE3121</b> Mining Geomechanics (discontinued)	2	1/22	<b>MINE3129</b> Applied Mining Geomechanics / <b>CIVL3220</b> Rock Mechanics	2	2	1/22, 1/23
	<b>PHYS1002</b> Electromagnetism and Modern Physics	2		<b>PHYS1002</b> Electromagnetism and Modern Physics (semester 2 only from 2022)	2	2	
	<b>REDE1300</b> Building Construction Management & Economics (discontinued)	2	1/20	<b>Any B1 Elective</b>		2	

√/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	<b>CHEE4012</b> Industrial Wastewater & Solid Waste Management (discontinued)	2	2/22	<b>CHEE4012</b> Industrial Wastewater & Solid Waste Management (discontinued)	2	2	
	<b>CIVL3150</b> Modelling of Environmental Systems (discontinued)	2	2/20	<b>ENVE3150</b> Environmental System Dynamics and Modelling	2	2	2/21
	<b>CIVL4110</b> Coastal & Estuarine Engineering (discontinued)	2	2/22	<b>CIVL6111</b> Ocean, Coastal and Estuarine Engineering OR <b>CIVL6112</b> Hydro- and Marine Power Renewable Energy Systems	2	2	2/23
	<b>CIVL4120</b> Advanced Hydraulic Engineering and Structures (discontinued)	2	2/22	<b>CIVL6121</b> Environmental Hydraulics and Flood Management	1	2	1/23
	<b>CIVL4140</b> Contaminant Transport Modelling (discontinued)	2	1/21	<b>CIVL4145</b> Groundwater Modelling and Management	2	2	2/22
	<b>CIVL4170</b> Environmental Risk Assessment and Management	2		<b>CIVL4170</b> Environmental Risk Assessment and Management	1	2	

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	<b>CIVL4180 Sustainable Built Environment (discontinued)</b>	2	1/22	<b>CIVL4525 Sustainable Infrastructure Design</b>	1	2	1/23
	<b>CIVL4230 Advanced Soil Mechanics</b>	2		<b>CIVL4230 Advanced Soil Mechanics</b>	2	2	
	<b>CIVL4270 Geotechnical Investigation &amp; Testing</b>	2		<b>CIVL4270 Geotechnical Investigation &amp; Testing</b>	1	2	
	<b>CIVL4280 Advanced Rock Mechanics</b>	2		<b>CIVL4280 Applied Rock Mechanics</b>	2	2	
	<b>CIVL4332 Advanced Structural Analysis (discontinued)</b>	2	2/22	<b>CIVL6360 Advanced Structural Analysis</b>	2	2	2/23
	<b>CIVL4333 Advanced Concrete Design</b>	2		<b>CIVL4333 Advanced Concrete Design</b>	1	2	
	<b>CIVL4334 Design of Timber Structures</b>	2		<b>CIVL4334 Design of Timber Structures</b>	2	2	
	<b>CIVL4340 Wind Engineering</b>	2		<b>CIVL4340 Wind Engineering</b>	1	2	
	<b>CIVL4412 Travel Behaviour and Transport Modelling (discontinued)</b>	2	2/22	<b>CIVL6412 Traffic Behavioural Modelling (discontinued)</b>	2	2	2/23
	<b>CIVL4450 Traffic Flow Theory and Emerging Technologies</b>	2		<b>CIVL4450 Traffic Flow Theory and Emerging Technologies</b>	2	2	
	<b>CIVL4460 Highway Geometric Design</b>	2		<b>CIVL4460 Road Design</b>	2	2	
	<b>CIVL4522 Analytical Methods for the Design of Construction Operations</b>	2		<b>CIVL4522 Analytical Methods for the Design of Construction Operations</b>	2	2	
	<b>CIVL4560 Project (discontinued)</b>	2	2/22	<b>CIVL4600 Research Part A</b>	1,2	2	1/23
	<b>CIVL4580 Research Thesis (discontinued) / CIVL4583 (from 2/21)</b>	4	2/22	<b>CIVL4605 Research Part A &amp; PART B (discontinued)</b>	1,2	2	1/23
	<b>CIVL4582 Research Thesis (discontinued) / CIVL4584 (from 2/21)</b>	4	2/22	<b>CIVL4605 Research Part A &amp; PART B (discontinued)</b>	1,2	2	1/23
	<b>FIRE3700 Introduction to Fire Safety Engineering</b>	2		<b>FIRE3700 Introduction to Fire Safety Engineering</b>	1	2	
	<b>FIRE4610 Fire Engineering Design: Solutions for Implicit Safety</b>	2		<b>FIRE4610 Fire Engineering Design: Solutions for Implicit Safety</b>	1	2	
	<b>MINE4000 Mine Waste Management &amp; Landform Design (discontinued)</b>	2	1/22	<b>CIVL6220 Tailings Design</b>	1	2	1/23

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